

**DETAILED ACTION**

***Allowable Subject Matter***

Claims 1-17 are allowed.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Onda et al. (US Pub. # 2007/0058995), Moon (US Pat. # 5,436,704) and Niito (US Pat. # 5,035,198), each teach a similar structure related to the present invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN D. WALSH whose telephone number is (571)272-2726. The examiner can normally be reached on M-F 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on 571-272-2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2852

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David M Gray/  
Supervisory Patent Examiner,  
Art Unit 2852

/Ryan D Walsh/  
Examiner, Art Unit 2852